

**SURF4 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP18750b****Specification**

---

**SURF4 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [O15260](#)**SURF4 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 6836**Other Names**

Surfeit locus protein 4, SURF4, SURF-4

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**SURF4 Antibody (C-term) Blocking Peptide - Protein Information****Name** SURF4 {ECO:0000303|PubMed:18287528, ECO:0000312|HGNC:HGNC:11476}**Function**

Endoplasmic reticulum cargo receptor that mediates the export of lipoproteins by recruiting cargos into COPII vesicles to facilitate their secretion (PubMed:<a href="http://www.uniprot.org/citations/30251625" target="\_blank">30251625</a>, PubMed:<a href="http://www.uniprot.org/citations/29643117" target="\_blank">29643117</a>, PubMed:<a href="http://www.uniprot.org/citations/33186557" target="\_blank">33186557</a>). Acts as a cargo receptor for lipoproteins bearing both APOB and APOA1, thereby regulating lipoprotein delivery and the maintenance of lipid homeostasis (PubMed:<a href="http://www.uniprot.org/citations/29643117" target="\_blank">29643117</a>, PubMed:<a href="http://www.uniprot.org/citations/33186557" target="\_blank">33186557</a>). Synergizes with the GTPase SAR1B to mediate transport of circulating lipoproteins (PubMed:<a href="http://www.uniprot.org/citations/33186557" target="\_blank">33186557</a>). Promotes the secretion of PCSK9 (PubMed:<a href="http://www.uniprot.org/citations/30251625" target="\_blank">30251625</a>). Also mediates the efficient secretion of erythropoietin (EPO) (PubMed:<a href="http://www.uniprot.org/citations/32989016" target="\_blank">32989016</a>). May also play a role in the maintenance of the architecture of the endoplasmic reticulum-Golgi intermediate compartment and of the Golgi (PubMed:<a href="http://www.uniprot.org/citations/18287528" target="\_blank">18287528</a>).

**Cellular Location**

Endoplasmic reticulum membrane; Multi-pass membrane protein. Endoplasmic reticulum-Golgi intermediate compartment membrane; Multi-pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein. Note=Cycles between the endoplasmic reticulum and the Golgi.

**SURF4 Antibody (C-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**SURF4 Antibody (C-term) Blocking Peptide - Images****SURF4 Antibody (C-term) Blocking Peptide - Background**

This gene is located in the surf4 gene cluster, which is comprised of very tightly linked housekeeping genes that do not share sequence similarity. The encoded protein is a conserved integral membrane protein containing multiple putative transmembrane regions. In eukaryotic cells, protein transport between the endoplasmic reticulum and Golgi compartments is mediated in part by non-clathrin-coated vesicular coat proteins (COPs). The specific function of this protein has not been determined but its yeast homolog is directly required for packaging glycosylated pro- $\alpha$ -factor into COPII vesicles. This gene uses multiple polyadenylation sites, resulting in transcript length variation. The existence of alternatively spliced transcript variants has been suggested, but their validity has not been determined.

**SURF4 Antibody (C-term) Blocking Peptide - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) ; Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009) Mitrovic, S., et al. Mol. Biol. Cell 19(5):1976-1990(2008) Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :